QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1

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8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	53.85	10	10
10	Drain Bottom Raft Concrete M20	Compressive Strength(7days and 28days)	2 set /6-15 cum	12.8	4	4
11	Drain SideWall Concrete M20	Compressive Strength(7days and 28days)	3 set /16-30 cum	17.86	6	6

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-16-03-2020-03** **Date: 14-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-16-03-2020-03 **Date: 10-12-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-16-03-2020-03** **Date: 14-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-16-03-2020-03** **Date: 14-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.3**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.5**	
3	Specific Gravity	**2.68**	–
4	Bulk Density(Loose) (Kg/l)	**1.56**	–
5	Bulk Density(Compacted) (Kg/l)	**1.59**	–
6	Water Absorption(%)	**0.21**	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-16-03-2020-03 **Date: 13-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-16-03-2020-03 Date: 13-11-19

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-16-03-2020-03** **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/141/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :**The tested Sample Conforms to Grading Zone II**

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-16-03-2020-03

Date: 13-11-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-16-03-2020-03 **Date: 28-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	25-11-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of Test	:	25-11-19

BLOCK DENSITY:

Sl.No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	199	203	16240	33.350	2053.6	2037.7	Not less than 1800Kg/m^3
2	402	198	200	15919	31.085	1952.7		
3	398	200	199	15840	33.371	2106.7		

WATER ABSORPTION:

Sl.No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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: CP-16-03-2020-03 Date: 28-11-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	202	200	
3	399	200	199	
4	404	199	202	
5	404	201	203	
6	402	200	199	
7	403	199	199	
8	404	200	202	
9	403	201	201	
10	400	202	200	
11	399	203	201	
12	401	201	200	
13	404	200	203	
14	402	202	203	
15	399	200	202	
16	401	203	199	
17	404	202	202	
18	400	203	199	
19	403	201	200	
20	401	202	203	
Average	**402**	**201**	**201**	

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Lab ID : CP-16-03-2020-03 Date: 28-11-19

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	200	80421	342.2	4.3	4.2
2	404	202	81498	349.7	4.3	
3	399	200	79950	332.8	4.2	
4	404	199	80362	332.3	4.1	
5	404	201	81111	338.1	4.2	
6	402	200	80642	347.0	4.3	
7	403	199	80447	339.3	4.2	
8	404	200	80908	342.5	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST RESULTS OF STEEL

	:	**CP-16-03-2020-03** **Date: 16-11-19**
Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
r's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Receipt	:	15-11-19
Type	:	Sunvik
BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
	:	15-11-19

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

ID	:	CP-16-03-2020-03 **Date: 03-12-19**
ject Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
ner's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	29-11-19
ple Type /Size	:	Precast Cover Slab (100mm)
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
of Test	:	29/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-16-03-2020-03** **Date: 09-12-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	04-12-19
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of Test	:	04/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-16-03-2020-03** **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

: 23-11-19

: PCC

Type /Size : 150X150X150 mm

grade/Age : M15 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	150.08 X 149.29 X 149.89	22406	**8.640**	276.0	12.3	12.5
PCC	M15	21/11/2019	28/11/2019	149.82 X 150.87 X 149.75	22603	**8.978**	290.6	12.9	
PCC	M15	21/11/2019	28/11/2019	150.44 X 150.41 X 151.77	22628	**8.541**	276.4	12.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-16-03-2020-03

Date: 19/12/2019

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/141/2019-20

: 23-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	19/12/2019	150.23 X 149.54 X 151.20	22466	**8.319**	393.9	17.5	17.8
PCC	M15	21/11/2019	19/12/2019	151.80 X 149.96 X 149.26	22764	**8.591**	409.2	18.0	
PCC	M15	21/11/2019	19/12/2019	151.68 X 149.05 X 150.37	22609	**8.784**	406.2	18.0	

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Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-16-03-2020-03 **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

Receipt : 23-11-19

ID : PCC

Type /Size : 150X150X150 mm

grade/Age : M15 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	151.46 X 149.63 X 150.29	22663	**8.640**	294.0	13.0	12.5
PCC	M15	21/11/2019	28/11/2019	151.80 X 151.07 X 149.40	22933	**8.978**	286.6	12.5	
PCC	M15	21/11/2019	28/11/2019	151.91 X 150.90 X 149.34	22923	**8.541**	275.1	12.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-16-03-2020-03** **Date: 19/12/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

: 23-11-19

: PCC

/Size : 150X150X150 mm

/Age : M15 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
PCC	M15	21/11/2019	19/12/2019	151.37 X 149.53 X 149.66	22635	**8.319**	403.0	17.8	17.6
PCC	M15	21/11/2019	19/12/2019	150.56 X 150.08 X 151.10	22596	**8.591**	390.9	17.3	
PCC	M15	21/11/2019	19/12/2019	149.32 X 149.17 X 149.06	22273	**8.784**	390.8	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-16-03-2020-03 **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

Receipt : 23-11-19

ID : PCC

/Size : 150X150X150 mm

/Age : M15 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	149.43 X 151.52 X 149.51	22642	**8.640**	280.6	12.4	12.5
PCC	M15	21/11/2019	28/11/2019	150.93 X 149.75 X 149.28	22601	**8.978**	286.8	12.7	
PCC	M15	21/11/2019	28/11/2019	151.63 X 150.98 X 151.73	22893	**8.541**	287.6	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-16-03-2020-03** **Date: 19/12/2019**
Work Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Owner's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	23-11-19
Specimen ID	:	PCC
Specimen Type /Size	:	150X150X150 mm
Concrete grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of Test	:	19/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	21/11/2019	19/12/2019	151.56 X 149.76 X 149.46	22698	**8.319**	392.3	17.3	17.5
2	PCC	M15	21/11/2019	19/12/2019	150.87 X 151.87 X 150.63	22913	**8.591**	409.0	17.8	
3	PCC	M15	21/11/2019	19/12/2019	150.82 X 149.10 X 150.60	22488	**8.784**	390.1	17.3	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-16-03-2020-03** **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : BBMP/EE/BTP/WO/141/2019-20

Receipt : 23-11-19

ID : PCC

Type /Size : 150X150X150 mm

grade/Age : M15 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	149.29 X 149.09 X 149.25	22257	**8.640**	270.1	12.1	12.4
PCC	M15	21/11/2019	28/11/2019	150.64 X 149.14 X 150.41	22467	**8.978**	277.4	12.3	
PCC	M15	21/11/2019	28/11/2019	149.60 X 151.72 X 151.73	22699	**8.541**	286.2	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

...ID	:	**CP-16-03-2020-03** **Date: 19/12/2019**
...Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
...ency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
...mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
...Receipt	:	23-11-19
...mer ID	:	PCC
...Type /Size	:	150X150X150 mm
...grade/Age	:	M15 / 28 Days Compressive Strength
...nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
...test	:	19/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	21/11/2019	19/12/2019	151.34 X 151.61 X 151.48	22944	**8.319**	409.3	17.8	17.8
2	PCC	M15	21/11/2019	19/12/2019	151.24 X 151.74 X 149.10	22949	**8.591**	409.6	17.8	
3	PCC	M15	21/11/2019	19/12/2019	151.37 X 150.28 X 151.43	22747	**8.784**	402.5	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-16-03-2020-03** **Date: 28/11/2019**
	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Reference	:	BBMP/EE/BTP/WO/141/2019-20
Receipt	:	23-11-19
ID	:	PCC
/Size	:	150X150X150 mm
/Age	:	M15 / 7 Days Compressive Strength
BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
	:	28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	149.30 X 150.30 X 150.17	22439	**8.640**	289.1	12.9	12.6
PCC	M15	21/11/2019	28/11/2019	149.67 X 151.83 X 150.04	22725	**8.978**	279.9	12.3	
PCC	M15	21/11/2019	28/11/2019	150.09 X 149.91 X 149.42	22500	**8.541**	282.2	12.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-16-03-2020-03** **Date: 19/12/2019**
Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Receipt	:	23-11-19
ID	:	PCC
Type /Size	:	150X150X150 mm
grade/Age	:	M15 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	19/12/2019	150.85 X 150.91 X 151.84	22766	**8.319**	387.6	17.0	17.5
PCC	M15	21/11/2019	19/12/2019	151.59 X 149.61 X 151.35	22679	**8.591**	407.3	18.0	
PCC	M15	21/11/2019	19/12/2019	150.88 X 150.58 X 150.34	22720	**8.784**	398.1	17.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

...D	:	**CP-16-03-2020-03** **Date: 03/12/2019**
...t Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
...cy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
...mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
...f Receipt	:	28-11-19
...mer ID	:	Drain Bottom Raft Concrete
...e Type /Size	:	150X150X150 mm
...e grade/Age	:	M20 / 7 Days Compressive Strength
...nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
...f test	:	03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
...rain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	151.94 X 149.58 X 151.02	22727	**8.704**	409.7	18.0	18.3
...rain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.62 X 149.46 X 149.85	22512	**8.019**	406.1	18.0	
...rain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.63 X 150.66 X 149.17	22694	**8.469**	428.7	18.9	

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

...ID	:	**CP-16-03-2020-03** **Date: 24/12/2019**
...ct Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
...ency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
...mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
...of Receipt	:	28-11-19
...mer ID	:	Drain Bottom Raft Concrete
...e Type /Size	:	150X150X150 mm
...e grade/Age	:	M20 / 28 Days Compressive Strength
...nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
...of test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	150.89 X 151.07 X 149.89	22795	**8.229**	527.5	23.1	23.1
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	150.91 X 150.42 X 151.93	22701	**8.393**	508.8	22.4	
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	149.69 X 149.30 X 151.33	22349	**8.020**	527.5	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-16-03-2020-03** **Date: 03/12/2019**
ct Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ner	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
ner's Reference	:	BBMP/EE/BTP/WO/141/2019-20
f Receipt	:	28-11-19
ner ID	:	Drain Bottom Raft Concrete
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	151.70 X 151.88 X 151.52	23041	**8.704**	430.2	18.7	18.5
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.35 X 151.67 X 151.43	22804	**8.019**	428.4	18.8	
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.10 X 149.25 X 151.44	22401	**8.469**	404.5	18.1	

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D	:	**CP-16-03-2020-03** **Date: 24/12/2019**
ct Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
cy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	28-11-19
mer ID	:	Drain Bottom Raft Concrete
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	149.84 X 150.60 X 151.36	22565	**8.229**	537.0	23.8	23.5
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	151.47 X 151.09 X 151.72	22884	**8.393**	524.7	22.9	
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	149.18 X 151.76 X 149.61	22640	**8.020**	539.8	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-16-03-2020-03** **Date: 07/12/2019**
ject Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ncy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
tomer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
e of Receipt	:	02-12-19
tomer ID	:	Drain SideWall Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	07/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.57 X 151.54 X 150.77	22817	**8.704**	412.7	18.1	18.2
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.55 X 151.92 X 151.64	22871	**8.019**	418.7	18.3	
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	151.65 X 151.66 X 150.05	22999	**8.469**	416.6	18.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-16-03-2020-03** **Date: 28/12/2019**

Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

ncy : Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mer's Reference : BBMP/EE/BTP/WO/141/2019-20

e of Receipt : 02-12-19

tomer ID : Drain SideWall Concrete

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 28/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.70 X 149.92 X 150.27	22593	**8.229**	541.4	24.0	23.3
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	149.78 X 151.57 X 151.62	22702	**8.393**	509.7	22.5	
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.33 X 150.27 X 149.93	22590	**8.020**	528.0	23.4	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-16-03-2020-03**

Date: 07/12/2019

ect Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

ncy : Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mer's Reference : BBMP/EE/BTP/WO/141/2019-20

of Receipt : 02-12-19

mer ID : Drain SideWall Concrete

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 07/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	151.88 X 149.65 X 151.66	22728	8.704	430.5	18.9	18.8
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.10 X 151.72 X 151.26	22773	8.019	425.2	18.7	
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.20 X 150.86 X 151.92	22659	8.469	428.9	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

D : **CP-16-03-2020-03** **Date: 28/12/2019**

ct Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

ncy : Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

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of test : 28/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	149.96 X 151.51 X 151.37	22720	**8.229**	528.3	23.3	23.1
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	149.94 X 149.26 X 151.87	22380	**8.393**	503.8	22.5	
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.16 X 151.11 X 151.65	22690	**8.020**	534.1	23.5	

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Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.73 X 151.96 X 149.14	22905	8.704	414.6	18.1	18.3
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.03 X 150.69 X 151.74	22608	8.019	417.4	18.5	
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	149.69 X 151.92 X 151.50	22741	8.469	418.7	18.4	

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Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	151.50 X 151.62 X 150.58	22971	**8.229**	547.1	23.8	23.1
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.03 X 149.07 X 151.91	22365	**8.393**	503.7	22.5	
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	151.26 X 150.77 X 150.33	22806	**8.020**	526.5	23.1	

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